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## Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

- 1. (ORIGINAL) A fluid flow control system for precisely controlling fluid flow from a source of fluid under pressure,
- a flow path for coupling said source of fluid to a point of utilization.
- a valve in said flow path,
  - a flow restrictor in said flow path,
- a pressure transducer connected across said flow restrictor for measuring the pressure differential thereacross and producing a signal proportional to said pressure differential, and
- a controller connected to receive said signal and pulse said valve at a frequency to obtain a preset target value of pressure across said flow restrictor.
  - 2. (ORIGINAL) A system of mixing two or more fluid streams comprising in combination the fluid flow control system defined in claim 1, coupled to a mixer which is also coupled to a source of a second fluid.
  - 3. (PREVIOUSLY PRESENTED) The system defined in claim 1 including means for inputting a flow modifying signal to said controller or for modifying said signal due to a change in the

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relationship between the pressure differential across the transducer versus the flow.

4. (ORIGINAL) The system defined in claim 2 including means for inputting a flow modifying signal to said controller or for modifying the control signal due to a change in the relationship between the pressure differential across the transducer versus the flow.

Claims 5 - 8. (CANCELLED).

Claims 9 and 10 (CANCELLED).

- 11. (PREVIOUSLY PRESENTED) A fluid flow control system for precisely controlling fluid flow from a source of fluid under pressure,
- 5 a flow path for coupling said source of fluid to a point of utilization,
  - a control valve in said flow path, said control valve being capable of high frequency pulsed operation,
    - a flow restrictor in said flow path,
- 10 a pressure transducer connected across said flow restrictor for measuring the pressure differential thereacross and producing a voltage signal proportional to said pressure differential, and
  - a controller connected to convert said voltage signal and pulse said valve at a frequency required to obtain a preset target

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- 15 value of pressure across said flow restrictor to control the flow rate of said fluid.
  - (PREVIOUSLY PRESENTED) A system of mixing two or more 12. fluid streams comprising in combination the fluid flow control system defined in claim 11, coupled to a mixer which is also coupled to a source of a second fluid.
  - (PREVIOUSLY PRESENTED) The system defined in claim 11 including means for inputting a flow modifying signal to said controller or for modifying said signal due to a change in the relationship between the pressure differential across the transducer versus the flow.
  - (PREVIOUSLY PRESENTED) The system defined in claim 11 14. including means for inputting a flow modifying signal to said controller for modifying the control signal due to a change in the relationship between the pressure differential across the transducer versus the flow.